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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,495	07/30/2001	Sebastien Ferroussat	S1022/8718	4927

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EXAMINER

MAI, TAN V

ART UNIT	PAPER NUMBER
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2124

DATE MAILED: 02/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/919,495

Applicant(s)

FERROUSSAT, SEBASTIEN

Examiner

Tan V Mai

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 21 and 22 is/are allowed.
- 6) ☒ Claim(s) 1-3, 7, 9, 11-14, 16-20 and 23 is/are rejected.
- 7) ☒ Claim(s) 4-6, 8, 10 and 15 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
2. Claims 11-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

As per independent claim 11, the phrase "said inputs the first" (line 8) should be --said inputs, the first--. Similarly noted independent claim 13.

3. Claims 1-3, 7, 9, 16-20 and 23 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Williams.

As per independent claim 1, Williams teaches the claimed combination. For example, Fig. 4 shows TWO of THREE CSAs of first row and CSAs (407, 409) of second row are considered the claimed first to fourth carry save adders. It is noted that the outputs (411) coupled to CSA (415) are considered the claimed "two of the said outputs having a equal weight" feature.

As per dependent claim 2, the output of the third CSA of the first row is considered the detail claimed feature.

As per dependent claim 3, the claim details "9 to 4 carry save adder circuit". Williams shows the claimed feature, e.g., 9 inputs (103) and 4 outputs (225, 227, 229 and 305).

As per dependent claim 7, the claim details "7 to 4 carry save adder circuit". Williams shows the claimed feature, e.g., 9 inputs (103) and 4 outputs (225, 227, 229 and 305) covers the claimed "7 to 4".

As per dependent claim 9, Williams shows the claimed feature.

As per independent claim 16, Williams details the multiplier tree having a "plurality of carry save adder circuits" as claimed.

As per dependent claims 17-20, Williams shows the claimed features.

Due to the similarity of independent claim 23 to claim 20, it is rejected under a similar rationale.

4. Claims 1, 7 and 23 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Hossain (recorded reference E).

As per independent claim 1, Hossain teaches the claimed combination. For example:

(1) Fig. 3 shows CSAs (301, 302) and CSAs (305, 311) are considered the claimed first to fourth carry save adders. It is noted that the outputs of CSAs (305, 311) coupled to either CSA (307) or CSA (308) are considered the claimed "two of the said outputs having a equal weight" feature, and

(2) Fig. 4 shows CSAs (401, 402) and CSAs (411, 412) are considered the claimed first to fourth carry save adders.

As per dependent claim 7, the claim details "7 to 4" carry save adder circuit". Hossain shows the claimed feature, e.g., 8 inputs and 5 outputs covers the claimed "7 to 4".

Due to the similarity of independent claim 23 to claim 1, it is rejected under a similar rationale.

5. Claims 4-6, 8, 10, and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 11-14 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

6. The following is an examiner's statement of reasons for allowance: the recorded references do NOT teach or suggest the novel detail interconnection between the CSAs as recited in dependent claims 4-6, 8, 10 & 15 and independent claims 11, 13, 21 and 22.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

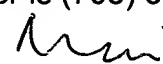
7. Due to the new grounds of rejection cited above, that the office action is NON-FINAL.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tan V. Mai whose telephone number is (571) 272-3726. The examiner can normally be reached on Mon-Wed and Fri. from 9:30am to 2:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki, can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is:

Official (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.


TAN V. MAI
PRIMARY EXAMINER